

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	10/679,164
Filing Date	10/04/2003
First Named Inventor	Nikitin
Art Unit	2193
Examiner Name	Mai, Tan V.
Attorney Docket Number	Nikitin 0301

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ^o
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
man	B2	JP411047131A	02-23-1999	Hwang, et al.		
man	B3	WO 01/75660 A1	10-11-01	Nikitin, et. al		

**Examiner
Signature**

Date Considered

9/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/679,164
Filing Date	10/04/2003
First Named Inventor	Nikitin
Art Unit	2624
Examiner Name	
Attorney Docket Number	Nikitin 0301

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
man	A1	US- 4,513,440	04/23/1985	Delman	
	A2	US- 4,682,230	07/21/1987	Perlman, et al.	
	A3	US- 5,144,568	09/01/1992	Glover	
	A4	US- 5,315,171	05/24/1994	Blauer, et al.	
	A5	US- 5,384,865	01/24/1995	Loveridge	
	A6	US- 5,408,675	04/18/1995	Florentino, et al.	
	A7	US- 5,414,472	05/09/1995	Hwang	
	A8	US- 5,426,785	06/20/1995	Coffield	
	A9	US- 5,446,501	08/29/1995	Takemoto, et al.	
	A10	US- 5,995,868	11/30/1999	Dorfmeister, et al.	
	A11	US- 6,058,405	05/02/2000	Kolte, et al.	
	A12	US- 6,121,817	09/19/2000	Yang, et al.	
	A13	US- 6,223,083 B1	04/24/2001	Rosar	
	A14	US- 6,219,102 B1	04/17/2001	Wagner, et al.	
	A15	US- 6,199,084 B1	03/06/2001	Wiseman	
	A16	US- 5,467,380	3/30/04	De Jonge et al	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
man	B1	WO 03/025512 A2	03/27/2003	Nikitin et al.		

Examiner
Signature

man

Date
Considered

9/2/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/679,164
		Filing Date	10/04/03
		First Named Inventor	Nikitin
		Art Unit	2624
		Examiner Name	
Sheet 2	of 3	Attorney Docket Number	Nikitin 0301

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Man	C1	OCHOA, E.; ALLEBACH, J.P.; SWEENEY, D.W.; Optical Median Filtering Using Threshold Decomposition; Applied Optics; 15 January 1987; pgs. 252-260; Vol. 26, No. 2; US.	
	C2	PAUL, S.; HUPER, K; Analog Rank Filtering; IEEE Transactions on Circuits and Systems—I: Fundamental Theory and Applications; 7 July 1993; pgs. 469-476; Vol. 40, No. 7.	
	C3	URAHAMA, K.; NAGAO, T.; Direct Analog Rank Filtering; IEEE Transactions on Circuits and Systems—I: Fundamental Theory and Applications; 7 July 1995; pgs. 385-388; Vol. 42, No. 7.	
	C4	NIKITIN, A.V.; DAVIDCHACK, R.L.; ARMSTRONG, T.P.; The Effect of Pulse Pile-up on Threshold Crossing Rates In A System With A Known Impulse Response;	
		Nuclear Instruments & Methods in Physics Research-Section A; 1998; pgs. 1-29; A411; 159-171; Department of Physics and Astronomy, University of Kansas, Lawrence, Kansas, US.	
	C5	NIKITIN, A.V.; Pulse Pileup Effects In Counting Detectors; Ph.D. Thesis; September 1998; Department of Physics and Astronomy, University of Kansas, Lawrence, Kansas, US.	
	C6	KEBEDE, S; KUOSMANEN, P.; VAINIO, O; ASTOLA, J.; Simple Circuit For Implementation Of An Analog Stack Filters; Symposium Article;	
		Tampere University of Technology—Signal Processing Laboratory; May 1994; pgs. 1-4; Tampere University of Technology; Finland	
	C7	NICHOLSON, D.R.; Introduction to Plasma Theory; Chapter 3—Plasma Kinetic Theory I: Klimontovich Equation; 1983; pgs. 37-44; Krieger Publishing Company.	
	C8	NICHOLSON, D.R.; Introduction to Plasma Theory; Chapter 4—Plasma Kinetic Theory II: Liouville Equation; 1983; pgs. 45-47; Krieger Publishing Company.	

Examiner Signature	Man	Date Considered	9/2005
--------------------	-----	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/679,164
		Filing Date	10/04/03
		First Named Inventor	Nikitin
		Art Unit	2624
		Examiner Name	
Sheet 3	of 3	Attorney Docket Number	Nikitin 0301

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Man	C9	NIKITIN, A.V.; DAVIDCHACK, R. L.; ARMSTRONG, T. P.; Analog multivariate counting analyzers; Nuclear Instruments & Methods in Physics Research-Section A;	
		2003; pgs. 465-480; Vol. A496; No. 2-3; Elsevier; Netherlands.	
	C10	VLASSIS, S.; DORIS, K.; SISKOS, S.; PITAS, I.; Analog implementation of erosion/dilation, median and order statistics filters; Pattern Recognition;	
		pgs.1023-1032; Vol. 33; No. 6; Elsevier; Netherlands.	
	C11	DIAZ-SANCHEZ, A.; RAMIREZ-ANGULO, J.; LEMUS-LOPEZ, J.; Analog Adaptive Median Filters; Analog Integrated Circuits and Signal Processing; 2003; pgs. 207-213; Vol. 36.; Kluwer;	
		Netherlands.	
	C12	FERREIRA, P.J.S.G.; Sorting Continuous-Time Signals and the Analog Median Filter; IEEE Signal Processing Letters; Oct. 2000; pgs. 281-283; Vol. 7; No. 10; US	
	C13	CILINGIROGLU, U.; DAKE, L.E.; Rank-Order Filter Design With a Sampled-Analog Multiple-Winners-Take-All Core; IEEE JOURNAL OF SOLID-STATE CIRCUITS; Aug. 2002; pgs. 978-984;	
		Vol. 37, No. 8; US	

Examiner Signature	Man	Date Considered	9/2005
--------------------	-----	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.